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Atlantis Fire & Safety Services

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# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### PRODUCT IDENTIFIER:

# ORCHIDEX ARC 3X6 UL

### OTHER MEANS OF IDENTIFICATION:

FLAMESTOP 6% AR FOAM, ATC, AR-AFFF FOAM

### RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Use of substance / mixture: fire extinguishing agent

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

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**PREPARED IN ACCORDANCE WITH THE NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS 2ND EDITION [NOHSC:2011(2003)]**

## SECTION 2 - HAZARD(S) IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification according to Regulation (EC) No. 1272/2008:

Classified as dangerous - Serious eye damage/eye irritation - Eye Dam. 1

Classification according to the the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition)

Not classified as dangerous goods

### LABEL ELEMENTS:

<b>Hazard pictograms</b>	
<b>Pictogram name</b>	GHS05 Corrosion
<b>Signal word</b>	<b>DANGER</b>
<b>Hazard statements</b>	
<b>Physical Hazards</b>	<b>H318</b> Causes serious eye damage.
<b>Health Hazards</b>	
<b>Environmental Hazards</b>	
<b>Combinations</b>	
<b>Precautionary statements</b>	
<b>General</b>	
<b>Prevention</b>	<b>P280</b> Wear protective gloves/protective clothing/eye protection/face protection
<b>Response</b>	<b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>P310</b> Immediately call a POISON CENTER/doctor.
<b>Storage</b>	
<b>Disposal</b>	

### OTHER HAZARDS:

Within expanded foam respiration is not possible, danger of suffocation!

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### SUBSTANCES

This product is a mixture

### MIXTURE INGREDIENTS

Ingredient (Designation)	EC No.	Concentration
Alcohols, C6-12, ethoxylated, sulfate, sodium salt	500-485-3	1 - <5%
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	203-961-6	1 - < 5%
Water purified	231-791-2	75-85%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

#### After inhalation

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). "If signs or symptoms occur, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention."

#### After skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After eye contact

Immediately flush eyes with large amounts of water. Get immediate medical attention.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE, DELAYED AND AGGREGATED

Irritation and etching

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## SECTION 5: FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA

This is an extinguishing agent.

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

At high temperature: concentrate gives toxic products. Thermal decomposition of usage concentrations does not present a hazard.

### ADVICE FOR FIREFIGHTERS

Avoid contact with water reactive materials, burning metals and electrically energized equipment.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Wear personal protection equipment (refer to section 8). Use appropriate respiratory protection.

### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into surface water or drains. Clean contaminated objects and areas thoroughly observing environmental regulations. Treat the recovered material as prescribed in the section on waste disposal.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Soak up inert absorbent and dispose as waste requiring special attention. Use approved industrial vacuum cleaner for removal. Collect in closed and suitable containers for disposal

## SECTION 7 - HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

#### Advice on safe use of product:

Keep container tightly closed and in a well-ventilated place.

#### Advice on safe handling:

No special handling advices are necessary.

#### Environmental precautions:

no information available

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### Technical measures and storage conditions:

Store at temperatures above 0°C and below 50°C.

#### Requirements for storage rooms and containers:

Keep only in the original container in a cool, well-ventilated place.

#### Unsuitable container/equipment material:

No information available.

#### Information on combines storage:

No information available.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

No exposure standards have been established for this material. However, the available exposure limits for the mixtures ingredients are listed below:

#### Safe Work, Australia Exposure Standards:

Substance	CAS No.	TWA*	STEL**
Ethanol	64-17-5	ppm - 1000 mg/m <sup>3</sup> ppm - 1880 mg/m <sup>3</sup>	No value assigned

#### Exposure Limits EH40

Substance	CAS No.	TWA*	STEL (15min)**
2-(2-Butoxyethoxy)ethanol	112-34-5	10 ppm, 67.5mg/m <sup>3</sup> (Origin: WEL)	15 ppm, 101.2mg/m <sup>3</sup> (Origin: WEL)

\*TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

\*\*STEL (Short Term Exposure Limit): The average airborne concentration over a minute period which should not be exceeded at any time during a normal eight-hour workday.

### EXPOSURE CONTROLS

#### Appropriate engineering controls:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### Individual protective measures, e.g. Personal Protective Equipment:

Avoid contact with skin, eyes and clothes. When handling with chemical substances, protective gloves must be worn. When using do not eat, drink, smoke, sniff. The following recommendations should be considered: Wear chemical goggles, chemical resistant gloves and in poor ventilated areas use appropriate respiratory protection.

#### Environmental exposure controls

Not known

#### Eye/face protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### Hand protection

Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: Butyl rubber

#### Skin protection

Avoid skin contact.

#### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> - Physical state: - Colour:	Liquid Amber
<b>Odour:</b>	Mild pleasant
<b>pH (at 20°C):</b>	6.0-9.5
<b>Melting point (°C):</b>	-3
<b>Initial boiling point &amp; range (°C):</b>	100

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Flash point (°C):</b>	ca. 100 - 110
<b>Sustaining combustion:</b>	Not sustaining combustion
<b>Density (at 20°C):</b>	1.02+-0.02 g/cm <sup>3</sup>
<b>Water solubility:</b>	very soluble
<b>Viscosity / dynamic (at 20°C):</b>	>20 mPa·s
<b>Solvent content:</b>	1.56%
<b>Solid content</b>	2.67%

## SECTION 10 - STABILITY AND REACTIVITY

### REACTIVITY

None

### CHEMICAL STABILITY

The study does not need to be conducted because the substance is known to be soluble in water to form a stable mixture.

### POSSIBILITY OF HAZARDOUS REACTIONS

None

### CONDITIONS TO AVOID

None

### INCOMPATIBLE MATERIALS

**Materials to avoid:**

None

### HAZARDOUS DECOMPOSITION PRODUCTS

None

## SECTION 11 - TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

Substance	CAS No.	Exposure route	Dose	Species
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	Oral	LD50 5660 mg/kg	Rat
		Dermal	LD50 4120 mg/kg	Rabbit

<b>Acute toxicity:</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation:</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation:</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation:</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity:</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity:</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity (STOT)– single exposure:</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity (STOT) – repeated exposure:</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard:</b>	Based on available data, the classification criteria are not met.

### INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

<b>Eye contact:</b>	No data available
<b>Skin contact:</b>	No data available
<b>Inhalation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Acute overexposure:</b>	No data available
<b>Chronic overexposure:</b>	No data available

### EARLY ONSET SYMPTOMS RELATING TO EXPOSURE

No known effects from this product.

### DELAYED HEALTH EFFECTS FROM EXPOSURE

No known effects from this product.

### EXPOSURE LEVELS AND HEALTH EFFECTS

No known effects from this product.

### INTERACTIVE EFFECTS

No known effects from this product.

## SECTION 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY

There is no data available on the mixture itself.

### PERSISTENCE AND DEGRADABILITY

There is no data available on the mixture itself.

### BIOACCUMULATIVE POTENTIAL

There is no data available on the mixture itself.

### PARTITION COEFFICIENT N-OCTANOL/WATER

Substance	CAS No.	Log Pow
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	0,56 (25°C)

### MOBILITY IN SOIL

There is no data available on the mixture itself.

### OTHER ADVERSE EFFECTS

There is no data available on the mixture itself.

### FURTHER INFORMATION

Depending on local conditions and existing concentrations, in the case of discharge in biological sewage plants, problems in the decomposition activity of activated sludge are possible.

## SECTION 13 - DISPOSABLE CONSIDERATIONS

### DISPOSABLE METHODS

Dispose of in compliance with local, state and Commonwealth regulations. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions if applicable

### PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

Not determined

### EFFECTS OF SEWAGE DISPOSAL

Not determined

### SPECIAL PRECAUTIONS FOR INCINERATION OR LANDFILL

Not determined

## SECTION 14 - TRANSPORT INFORMATION

UN number	Not applicable. The mixture is not classified as dangerous.
Proper shipping name or Technical Name	Not applicable.
Transport hazard class	<b>Road and Rail Transport</b> Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG) for transport by Road and Rail <b>Marine Transport</b> Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. <b>Air Transport</b> Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations
Packing Group	Not applicable.
Environmental hazards for Transport Purposes	Not applicable.
Special Precautions for user	Not applicable.
Additional Information	none
Hazchem or Emergency Action Code	Not hazardous

## SECTION 15 - REGULATORY INFORMATION

### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

2010/75/EU (VOC): 1.155 % (11.781 g/l)

2004/42/EC (VOC): 3.44 % (35.091 g/l)

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Water contaminating class (D): 1 - slightly water contaminating

#### AICS (Australia)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted

## CHEMICAL ASSESSMENT

For this mixture a chemical safety assessment has been carried out.

### KEY LITERATURE REFERENCES AND SOURCES

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

This Safety Data Sheet where necessary has been established in accordance with the applicable European Union legislation.

Australian Inventory of Chemical Substances (AICS)

Australian Code for the Transport of Dangerous Goods by Road & Rail (2015, 7th Edition, 7.4)

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Workplace exposure standards for airborne contaminants, Safe work Australia.

International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

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**For contact information please go to page 1 of this SDS.**

**END OF SDS.**

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